

FIG. 1

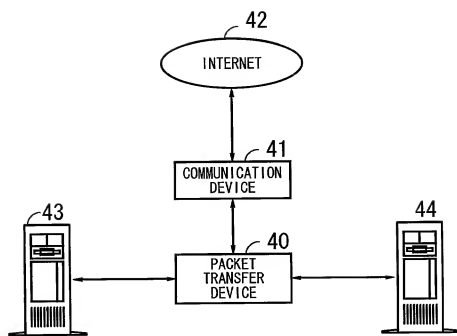


FIG. 2

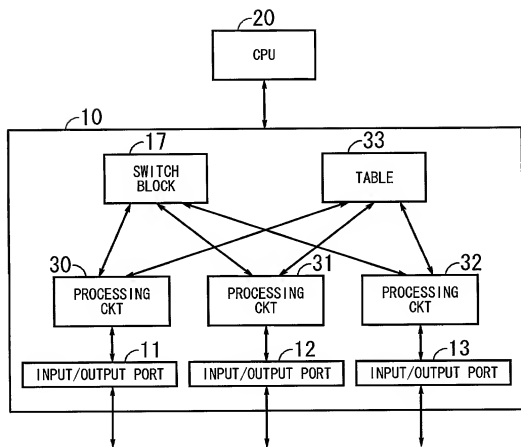


FIG. 3

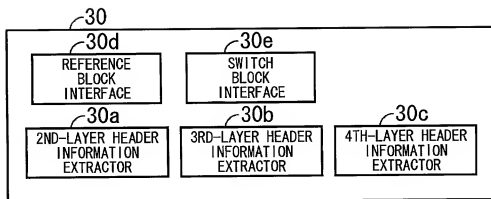


FIG. 4(A)

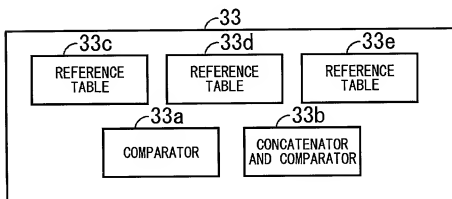


FIG. 4(B)

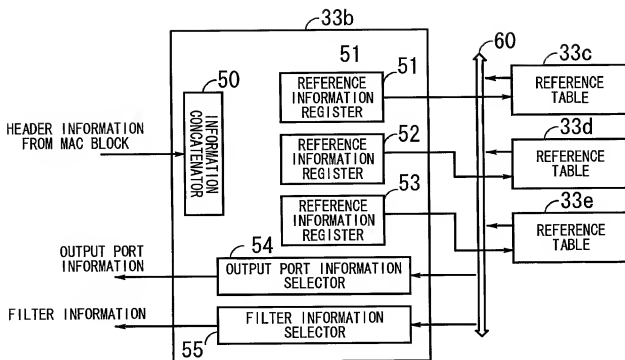


FIG. 5

REFERENCE FIELD				DATA FIELD	
SOURCE IP ADDRESS	DESTINATION IP ADDRESS	SOURCE TCP PORT NUMBER	DESTINATION TCP PORT NUMBER	INPUT/OUTPUT PORT	FILTERING
SA#1	DA#1	SP#1	DP#1	P#1	NO
SA#2	DA#2	SP#2	DP#2	P#2	NO
SA#3	DA#3	SP#3	DP#3	—	YES

FIG. 6

REFERENCE FIELD				DATA FIELD		
RECEPTION INPUT/OUTPUT PORT	SOURCE IP ADDRESS	DESTINATION IP ADDRESS	SOURCE TCP PORT NUMBER	DESTINATION TCP PORT NUMBER	INPUT/OUTPUT PORT	FILTERING
PORT 11	gaany	ga#1	tcpany	80	CPU	NO
PORT 11	gaany	ga#1	tcpany	100	—	YES
.
.

FIG. 7

	DESTINATION MAC ADDRESS	SOURCE MAC ADDRESS	SOURCE IP ADDRESS	DESTINATION IP ADDRESS	SOURCE TCP PORT NUMBER	DESTINATION TCP PORT NUMBER
PACKET #1	ma#1	max	gax	ga#1	x	80
PACKET #2	ma#1	max	gax	ga#1	x	100
.
.

FIG. 8

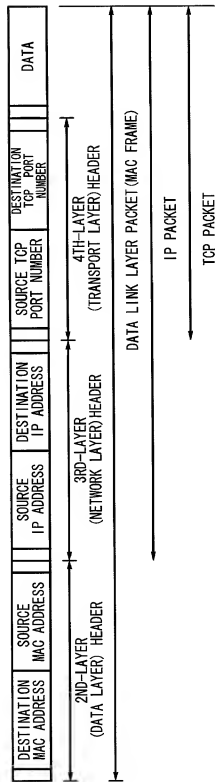


FIG. 9

REFERENCE FIELD				DATA FIELD	
SOURCE IP ADDRESS	DESTINATION IP ADDRESS	SOURCE TCP PORT NUMBER	DESTINATION TCP PORT NUMBER	INPUT/OUTPUT PORT	FILTERING
pa#1	pa#2	tcpany	110	PORT 13	NO
pa#1	pa#2	tcpany	100	—	YES
.
.
.

FIG. 10

	DESTINATION MAC ADDRESS	SOURCE MAC ADDRESS	SOURCE IP ADDRESS	DESTINATION IP ADDRESS	SOURCE TCP PORT NUMBER	DESTINATION TCP PORT NUMBER
PACKET #1	mpa#2	mpa#1	pa#1	pa#2	x	110
PACKET #2	mpa#2	mpa#1	pa#1	pa#2	x	100
.
.

FIG. 11

REFERENCE FIELD		DATA FIELD	
SOURCE IP ADDRESS	DESTINATION IP ADDRESS	INPUT/OUTPUT PORT	FILTERING
pa#4	pa#1	PORT 12, 13	NO
pa#4	pa#2	PORT 13	YES
.	.	.	.
.	.	.	.

FIG. 12

REFERENCE FIELD				DATA FIELD	
SOURCE IP ADDRESS	DESTINATION IP ADDRESS	SOURCE TOP PORT NUMBER	DESTINATION TOP PORT NUMBER	INPUT/OUTPUT PORT	FILTERING
pa#4	pa#1	x	110	PORT 13	NO
pa#4	pa#2	x	100	PORT 13	NO
.
.

FIG. 13

	DESTINATION MAC ADDRESS	SOURCE MAC ADDRESS	SOURCE IP ADDRESS	DESTINATION IP ADDRESS	SOURCE TCP PORT NUMBER	DESTINATION TCP PORT NUMBER
PACKET #1	ma#1	ma#2	pa#4	pa#1	x	110
PACKET #2	ma#1	ma#2	pa#4	pa#2	x	100
.
.

FIG. 14

REFERENCE FIELD	DATA FIELD
IP ADDRESS #1	PORT 11
IP ADDRESS #2	PORT 12
IP ADDRESS #3	PORT 13

FIG. 15 (A)

REFERENCE FIELD	DATA FIELD
TCP PORT #1	PORT 11
TCP PORT #2	PORT 12
TCP PORT #3	PORT 13

FIG. 15 (B)

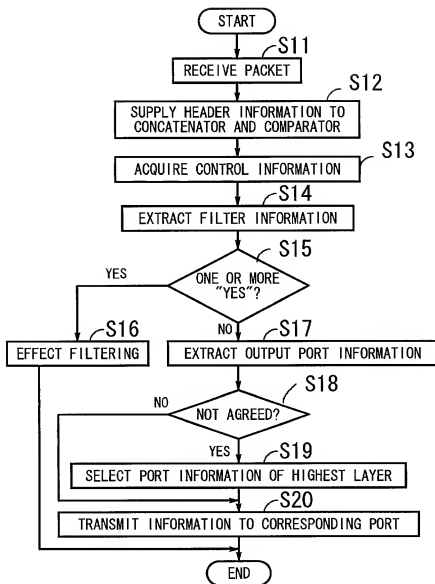


FIG. 16

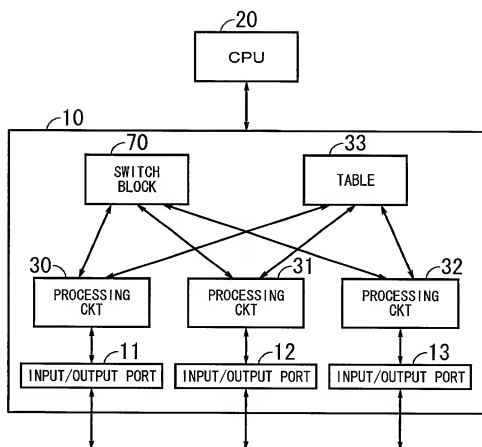


FIG. 17

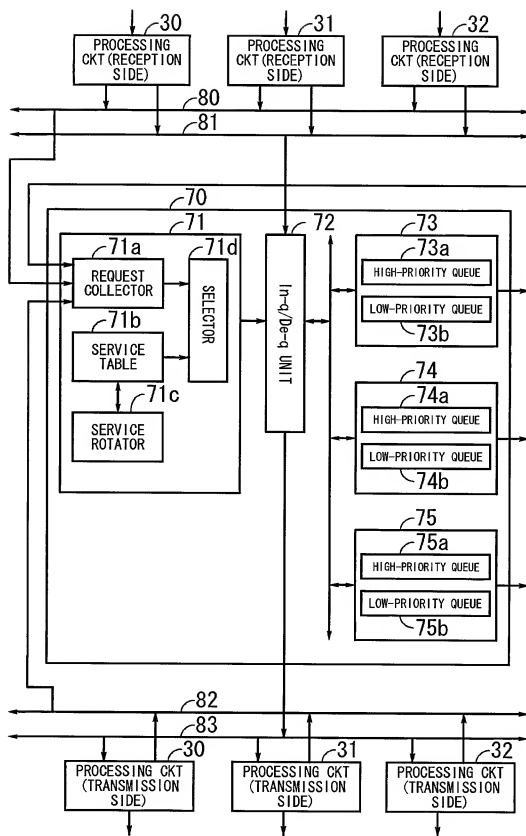


FIG. 18

REFERENCE FIELD				DATA FIELD	
SOURCE IP ADDRESS	DESTINATION IP ADDRESS	SOURCE TCP PORT NUMBER	DESTINATION TCP PORT NUMBER	INPUT/OUTPUT PORT	PRIORITY
SA#1	DA#1	SP#1	DP#1	P#1	PRIORITY #1
SA#2	DA#2	SP#2	DP#2	P#2	PRIORITY #2
SA#3	DA#3	SP#3	DP#3	—	—

FIG. 19

REFERENCE FIELD				DATA FIELD		
SOURCE IP ADDRESS	DESTINATION IP ADDRESS	SOURCE TCP PORT NUMBER	DESTINATION TCP PORT NUMBER	INPUT/OUTPUT PORT	PRIORITY	
any	pa#2	6000	6300	PORT 12	PRIORITY HIGH	
any	pa#2	any	100	PORT 12	PRIORITY LOW	
.
.

FIG. 20

	DESTINATION MAC ADDRESS	SOURCE MAC ADDRESS	SOURCE IP ADDRESS	DESTINATION IP ADDRESS	SOURCE TOP PORT NUMBER	DESTINATION TOP PORT NUMBER
PACKET #1	ma#2	ma#1	pa#1	pa#2	6000	6300
PACKET #2	ma#2	ma#3	pa#3	pa#2	x	100
.
.

FIG. 21

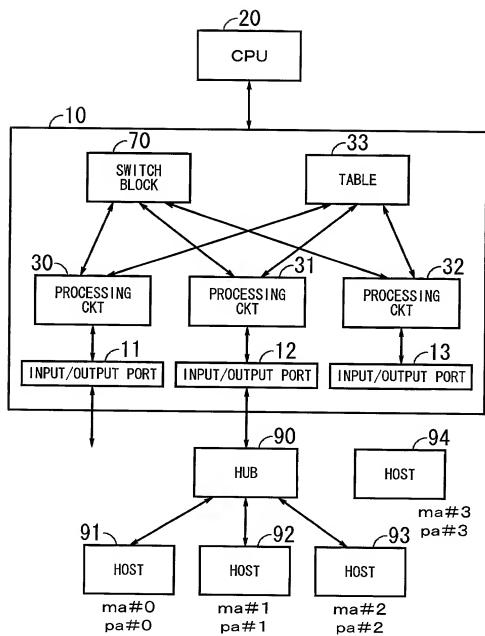


FIG. 22

No.	CONTROL BITS	SOURCE IP ADDRESS	DESTINATION IP ADDRESS	SOURCE TCP PORT NUMBER	DESTINATION TCP PORT NUMBER	TOS	PRIORITY: PORT
1	10001	pa#0	pa#3	—	—	000	LOW: PORT 12
2	10001	pa#1	pa#3	—	—	100	HIGH: PORT 12
3	10001	pa#2	pa#3	—	—	010	MEDIUM: PORT 12
.
.

FIG. 23

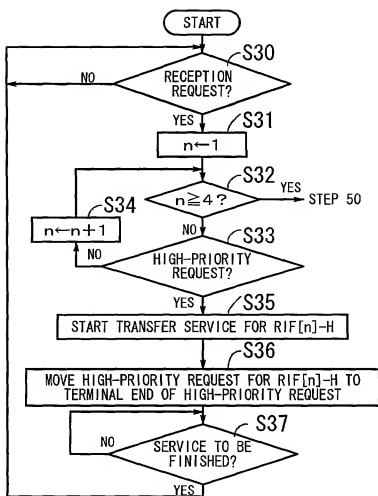


FIG. 25

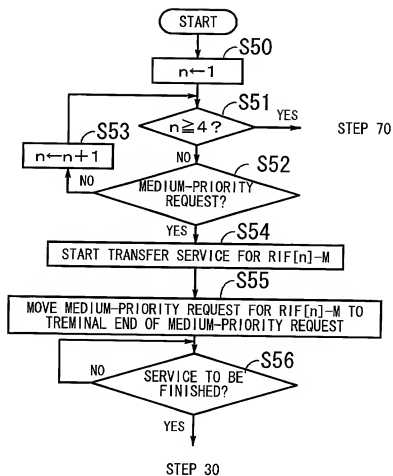


FIG. 26

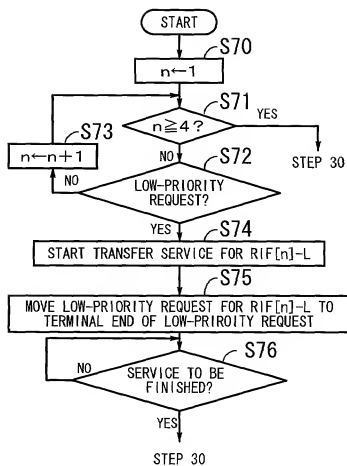
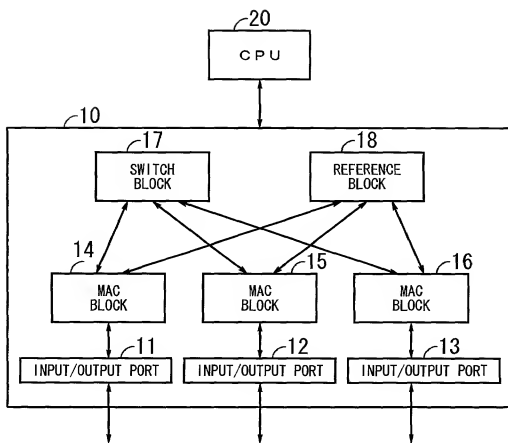
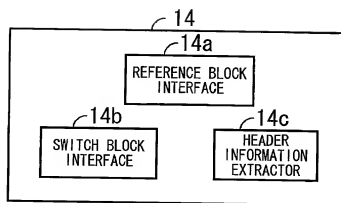


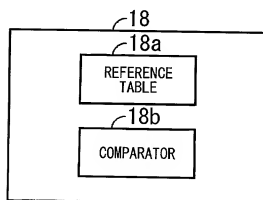
FIG. 27



PRIOR ART
FIG. 28



PRIOR ART
FIG. 29 (A)



PRIOR ART
FIG. 29 (B)

REFERENCE FIELD	DATA FIELD
MAC ADDRESS #1	PORT NUMBER #1
MAC ADDRESS #2	PORT NUMBER #2
MAC ADDRESS #3	PORT NUMBER #3

PRIOR ART
FIG. 30